# ORD COMPUTATIONAL **TOXICOLOGY WORKSHOP:** Research Framework, Partnerships and Program Development

Research Triangle Park September 29-30, 2003



## Computational Toxicology

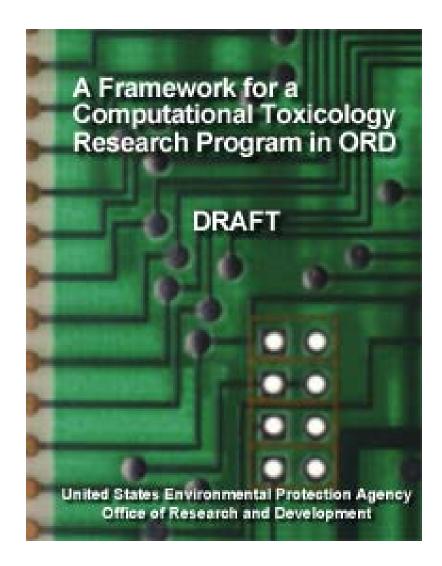
- ➤ Definition: The application of mathematical and computer models and molecular biological approaches to improve EPA's prioritization of data requirements and risk assessments
- ➤ Approach: A technology-based, hypothesis driven program

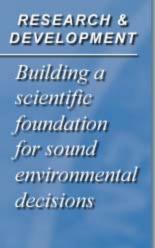


#### RESEARCH & DEVELOPMENT

Building a scientific foundation for sound environmental decisions







## Workshop Objectives

- Communicate the Computational Toxicology Framework to ORD researchers and other Agency scientists
- Identify and foster external partnerships
- ➤ Begin the process of shaping the research program





### Workshop Overview

- Computational Toxicology Framework
- Strategies of Related Organizations
- > Highlighted Scientific Approaches
- Regulatory Needs
- Program Formulation





#### The Past

- FY02 Congressional re-direction to provide funds for non-animal alternative testing
- FY03 effort continued to use endocrine disruptors as proof-ofconcept activity
- Leadership by Paul Gilman, AA for ORD, to increase emphasis on Computational Toxicology within EPA





#### The Present

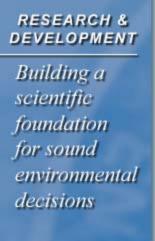
- > Infrastructure building
- > Partnership development
- > STAR RFAs
- > SAB Consult, Sept. 12, 2003
- > ORD Workshop, Sept. 29-30, 2003



### Computational Toxicology



Prediction Prioritization Quantitative Risk Assessment



## Logistics

- ➤ Acknowledgements
- > Evacuation Procedures
- > Facilities
- Breaks and Lunch
- ➤ Breakout Groups
- > Social

